FILE NOTATIONS

Intered in NID File	Checked by Chief Approval Letter Disapproval Letter
COMPLETION DATA:	
Date Well Completed	Location Inspected
W WW TA	Bond released
3W OS PA	State or Fee Land
Logs	FTLED
Driller's Log ? ? ? ? ?	
Slectric Logs (No.)	
5 16. F Dual I Lat.	GR-N Micro
HC Sonic CRI kat	. Mi-L Sonic
Too Office Oth	pro

Verbal applied by P.W.B. -69-22-69

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UNITED STATES DEPARTMENT OF THE INTERIOR

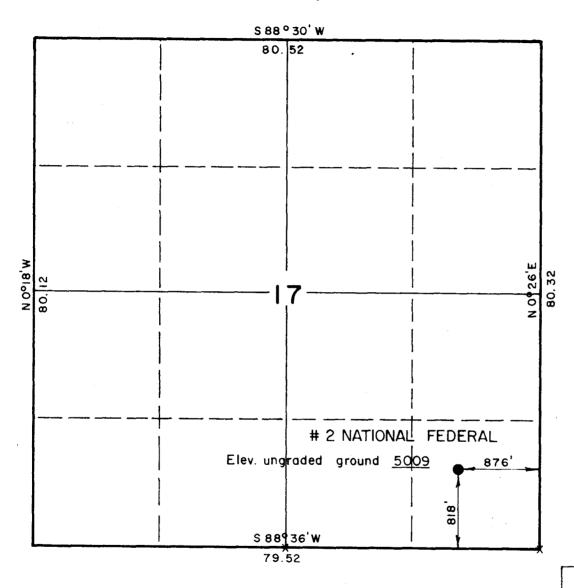


5. LEASE DESIGNATION AND SERIAL NO. GEOLOGICAL SURVEY U-031828 6. IF INDIAN, ALLOTTEE OR TRIBE NAME APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK 1a. TYPE OF WORK 7. UNIT AGREEMENT NAME PLUG BACK DRILL X DEEPEN [b. TYPE OF WELL SINGLE MULTIPLE S FARM OR LEASE NAME .. WELL WELL X ZONE OTHER National-Government 2. NAME OF OPERATOR 9. WELL NO. Kenneth D. 3. ADDRESS OF OPERATOR 10. FIELD AND POOL, OR WILDCAT 210 Patterson Building, Denver, Colorado
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*) Horseshoe Bend & 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA JID FSLL 876 FER At proposed prod. zone 17-T6S-R21E 12. COUNTY OR PARISH | 13. STATE 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE Utah Uintah Vernal 8 miles Northeast

10. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT. 17. NO. OF ACRES ASSIGNED 16. NO. OF ACRES IN LEASE TO THIS WELL 640 1280 818' (Also to nearest drlg. unit line, if any) 20 ROTARY OR CARLE TOOLS 19. PROPOSED DEPTH 18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT. 1 50 4300' -Rotary 9400' 22. APPROX. DATE WORK WILL START* 21. ELEVATIONS (Show whether DF, RT, GR, etc.) 8 e (*) 5009 12/26/69 PROPOSED CASING AND CEMENTING PROGRAM $\overline{23}$ QUANTITY OF CEMENT SETTING DEPTH WEIGHT PER FOOT SIZE OF CASING SIZE OF HOLE 250 175 saxs 24# 12-1/4" 8-5/8" 4300 Uinta saxs 4-1/2" 9.5# 7-5/8" Propose to drill 250' of 12-1/4" hole and set 250' of 8-5/8" surface casing. Nipple up Schaffer double hydraulic BOP and test same. Drill 7-7/8" hole to 4300 maintaining proper mud weight to protect against 1700 psi gas bearing sands below a depth of 3500. Check BOP on each tour. Run IES log at total depth. If indicated to be productive, run $9\frac{1}{2}$ # $4\frac{1}{2}$ " casing and complete as well. An exception to Rule C3(b) is requested for this location as it is about 4750' from the Luff #1 Joyce Luff Federal (SW SE Sec. 21, T6S, R21E) and completed as a Uinta gas well. # 3 Lingel back This exception is requested under the provisions of Rule C3(c) 1 & 2 as the necessity is based on topographic conditions and the leases affected by the proposed well are controlled by applicants. Blanket Bond is held by the Operator in the State of Utah. IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any 24.Operator DATE SIGNED (This space for Federal or State office use) APPROVAL DATE PERMIT NO. APPROVED BY . CONDITIONS OF APPROVAL, IF ANY:

T6S, R2IE, SLB&M



X = Corners Located (Brass Caps)

PROJECT

KENNETH D. LUFF WELL LOCATION AS SHOWN IN THE SE 1/4 SE 1/4, SECTION 17, T6S, R2IE, SLB&M. UINTAH COUNTY, UTAH.



CERTIFICATE

TO CERTIFY THAT THE ABOVE PEAT WAS PREPARED FROM MIT KNOWLETS F. AND BE TER



REGISTRAT .. N Nº 3154 STATE OF STAH

UINTAH ENGINEERING & LAND SURVEYING PO BOX Q - HO EAST - FIRST SOUTH VERNAL, UTAH - 84078

SCALE 1" = 1000'	DATE 2 Dec. 1969		
L.D.T. & K.M.	REFERENCES GLO Township Plat		
WEATHER Clear & Cold	FILE K.D. LIIFF		

December 23, 1969

Kenneth D. Luss 210 Patterson Building Denver, Colorado 80202

> Re: Well No. National Covernment #2 Sec. 17, T. 6 S. R. 21 F. Wintah County, Utah

Dear Mr. Luff:

Insofar as this office is concerned, approval to drill the above mentioned well is hereby granted in accordance with Rule C-3 (c), and with verbal approval granted by Mr. Paul Burchell on December 22, 1969.

Should you determine that it will be necessary to plug and abandon this well, you have hereby requested to immediately notify the following:

PAUL W. BURCHELL - Chief Petroleum Engineer HOME: 277-2890 OFFICE: 328-5771

This approval terminates within 90 days if the well has not been spuddedin within said period. Also, enclosed please find Form OCC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling. Your cooperation with respect to completing this form will be greatly appreciated.

The API number assigned to this well is 43-047-30075 (see Bulletin D-12 published by the American Petroleum Institute).

Very truly yours,

DIVISION OF OIL & GAS CONSERVATION

CLEON B. FEIGHT DIRECTOR

CBF:sd cc: U.S. Geological Survey

READ WHAT OUR **CUSTOMERS SAY**

SAMPLUNSOLICTED LETTERS ARE MERELY
APPLICATOR AND BOTH THE ONSUMER SSIONAL have used it on all of my asphalt tile floors and believe it or not it sure is a God send for floor coating, It makes the floors just like new again, as a matter of fact, better than new.

F. F. L. Wisconsin Dells, Wisc

" In trying FLEX-COTE floor products I find this to be the best I have ever seen."

> E.S. Philadelphia, Pa.

I have talked with personel from Westinghouse Electric Corp. and they are using your FLEX-COTE Floor Finish in the M-20 section of the plant on a white tile floor. So far it has been with very excellent success."

> Ray's Akron, N. Y.

"We have just received and tested the introductory 3-part FLEX-COTE Floor System and were amazed and pleased with the results. Some people who watched our demonstration had the same to say as we did."

> R. Y. O., Honolulu, Hawaii

I like your Floor Care System very much. "

> Mrs R. F. Stevens Point, Wisc

I tried my initial order in an apartment building. It gave such good results that I received a floor maintenance contract.

> C. K. Baltimore, Md

Natury CS27 F T.P4187 11B11-3767 1 bot SS 3840 - all wel 1st by 55 mg holi 2900 4400 = 3950 \$ 3800 (25 m - 2450 t 2850 (3) 25 26 - 275 × 175 (4) 5 06 / marke/much 9.6 ll. John Luff (170) GIC#/ Chops might complete for for unlanding m hany





UNITED STATES SUBMIT DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY . SUBMIT IN DUPLICATE.

(See other instructions on reverse side)

Form approved. Budget Bureau No. 42-R355.5.

5. LEASE DESIGNATION AND SERIAL NO.

U~		

WELL CO	MPLETION	OR RECO	MPLETION	REPORT A	ND LOC	6. IF INDIAN, ALI	LOTTER OR TRIBE NAM
1a. TYPE OF WE	LL: OIL WEL	L GAS WELL	DRY X	Other		7. UNIT AGREEME	NT NAME
b. TYPE OF COL	MPLETION:						
WELL X	OVER DEE	P- PLUG BACK	DIFF.	Other Dry	<u> </u>	8. FARM OR LEAS	B NAME
2. NAME OF OPERA	ATOR						Coverment
Kenneth	D. Luff				<u> </u>	9. WELL NO.	
3. ADDRESS OF OP		and the second second				10. FIELD AND PO	
210 Patt	erson Buil	ding, De	accordance with a	reco 5ULU	ento) *		
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				in the second se		OR AREA	
At top prod. 11	iterval reported bel	. 0W		호를 보고다.			
At total depth						Sec. 17,	Tos, RZLE
			14. PERMIT NO	DAT	re issued	12. COUNTY OR PARISH	13. STATE
	<u> sa starff</u>		43-047-	30075	12/23/	69 Vintah	Utah
15. DATE SPUDDED	16. DATE T.D. RI	EACHED 17. DA	TE COMPL. (Ready			, RKB, RT, GR, ETC.) * 19.	ELEV. CASINGHEAD
12/27/69	1/6/70		e man 1 00 am Mill	SOE	23. INTE	- 5020 KB	2000
20. TOTAL DEPTH, MD	& TVB 21. PLUG	, BACK T.D., MD	HOW N			ED BY	CABLE TOOLS
4187'	DRVAL(S), OF THIS	COMPLETION—TO	P. BOTTOM. NAME (MB AND TVD)*		<u> </u>	25. WAS DIRECTIONAL
			, 202200, 20000				SURVEY MADE
Dry	hole.						No
26. TYPE ELECTRIC	AND OTHER LOGS R	UN				27.	WAS WELL CORED
Sobl subs	erger IES	Aldirit	a Mud Logg	ing Compan	l y		No
28, //			SING RECORD (Re				
CASING SIZE	WNIGHT, LB./I	T. DEPTH S	EET (MD) HO)LE SIZE	CEME	NTING RECORD	AMOUNT PULLED
B 5/8"	29#	2	25' 1:	2 1/4"	2	00 sacks	None
							\ <u></u>
		LINER RECORI	11				
29.	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	30.	DEPTH SET (MD)	PACKER SET (MD)
5.46	101 (MD)	DOTTOM (MD)	SACING COMETTE	Benzan (MD)	- S1210	DEFIN SET (MD)	PACKER SEP (MD)
			-		-		
31. PERFORATION RE	CORD (Interval, siz	e and number)		32.	CID, SHOT,	FRACTURE, CEMENT SQU	JEEZE, ETC.
				DEPTH INTERV	AL (MD)	AMOUNT AND KIND OF	MATERIAL USED
			,				
							, 14 y 3 y 3 y 3 y 3 y 3 y 3 y 3 y 3 y 3 y
			·				
33.* DATE FIRST PRODUCT	PION . PRODUC	OWYON MEMBOR (PRO:	DUCTION	tuna of num		- (D. 3
	Thomas and the second	CLION MELLIOD (r vousay, gue tejt, p	ansping—siec and	espe of punt	shut-in)	is (Producing or
DATE OF TEST	HOURS TESTED	CHOKE SIZE		OIL—BBL.	GAS-MCF	. WATER—BBL.	GAS-OIL RATIO
	1		TEST PERIOD				
FLOW. TUBING PRESS.	CASING PRESSURE		OIL—BBL.	GAS-MCF	· v	VATER—BBL. OIL (GRÁVITY-API (CORR.)
		24-HOUR RAT	r e				
34, DISPOSITION OF	As (Sold, used for)	luel, vented, etc.)		3.1.1.1.	TEST WITNESSED I	3 T
					<u> 19</u>		
35. LIST OF ATTACH	MENTS				The second		
Geolog	ic Report 8	Log.			with the second		
so. 1 nereby certify	that the foregoing	and attached i	nrormation is comp	lete and correct	as determined	from all available records	
SIGNED	Entle	H	TITLE			DATE	1/20/10
						DATE	

NSTRUCTIONS

Any necessary special instructions concerning the use of this form and the number of copies to be with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions. State laws and regulations.

filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formand pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments be listed on this form, see item 35. should

and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. lem 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments. to be separately produced, showing the additional data pertinent to such interval. bottom(s) and name(s) or Federal office for specific instructions. tems 22 nterval. or each

If there are no applicable State requirements, locations on Pederal or Indian land should be described in accordance with Federal requirements.

Consult local State

Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool. tem 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.) tem

		MEAS. DEPTH TRUE VERT. DEPTH		53)	Sec.		₹ *	¥				
GEOLOGIC MARKERS	TOP	MEAS. DEPTH	387.2	3767 (+12	262	Trems. 4102	×					
38. GEOLU	Sec. 12	Mana	"A" Meritar	"B" Marker	"C" Marker	en River			100 miles			
				in digery								
CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING AND SHUT-IN PRESSURES, AND RECOVERIES	DESCRIPTION, CONTRINTS, ETC.											
PEN, FLOWING AN												1-5 1-5
ROSITY AND CONTENUED, TIME TOOL O	BOTTOM							EDIOCIC REPORT				
TESTED, CUSHION	TOP							SEE GEOLO				***
SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THERBOF; DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING	FORMATION									· · · · · · · · · · · · · · · · · · ·		

Form 9-331 (May 1968) Form approved. Budget Bureau No. 42-R1424 ITED STATES SUBMIT IN CATE* DEPARTMENT OF THE INTERIOR Verse side) on re-5. LEASE DESIGNATION AND SERIAL NO. GEOLOGICAL SURVEY 6. TREAL SALETER OR TRIBE NAME SUNDRY NOTICES AND REPORTS ON WELLS (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.

Use "APPLICATION FOR PERMIT—" for such proposals.) 7. UNIT AGREEMENT NAME GAS WELL OTHER WELL Dry Hole 2. NAME OF OPERATOR 8. FARM OR LEASE NAME ntional Cover POPPERS OF PATOLARY LOCATION OF WELL (Report location clearly and in accordance with any Sinte recomplishes At surface 10 FIELD D POOL, OR WILDCAT 300 876 fel x 818 fel 14, PERMIT NO. 15. ELEVATIONS (Show whether DF, RT, GR, etc.) ACCOUNT OR THE PER TE Check Appropriate box To Indicate Nature of Notice, Report, or Other Data 16**55--047--300**75 NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF TEST WATER SHUT-OFF PULL OR ALTER CASING WATER SHUT-OFF REPAIRING WELL ALTERING CASING MULTIPLE COMPLETE FRACTURE TREAT FRACTURE TREATMENT ABANDONMENT. SHOOT OR ACIDIZE ABANDON* SHOOTING OR ACIDIZING REPAIR WELL CHANGE PLANS (Norn: Report results of multiple completion on Well Completion or Recompletion Report and Log form.) (Other) 17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)* :***** :5 Set cement plugs as follows to abundon well: 1 r, 3 2950-2050 275-175 . . sacks - Surface with Merker Verbal approval given by John Finnegan on January 6, 1970. 35 18. I hereby certify that the foregoing is true and correct TITLE (This space for Federal or State office use) APPROVED BY DATE TITLE

CONDITIONS OF APPROVAL, IF ANY:

Form 9-331

Form approved.

	DEPARTM	ENI OF ITH	CINICKIO	r verse side)	ј 5. ы	SASE DESIGNATION	IN AND SERIAL NO		
DEPARTMENT OF THE INTERIOR verse side)						5. LEASE DESIGNATION AND SERIAL NO. U-031828			
·.	GE	OLOGICAL S	URVEY				FEE OR TRIBE NAM		
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				k to a different reservoir.					
<u> </u>	Ose AFFLICAT	ION FOR PERMIT	for such proj	Jusais. /		NIT AGREEMENT	NA M IO		
OIL GAS	K OTHER D	ry Hole			'' ''	WII AGREEMENT	NAME		
WELL WELL NAME OF OPERATOR	OTHER				8 F	ARM OR LEASE N	AMR		
Kenneth D.	t seff								
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		Banna	- 7-1	de 80202	,	9			
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5/0	TET Y GTO	463				SEC., T., R., M., O	R BLK. AND		
						SURVEY OR AR	ÐA		
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43-04/-360/					_		1 Shirten		
16.	Check App	ropriate Box To	o Indicate Na	ture of Notice, Report,	or Other	Data			
	NOTICE OF INTENTI	ON TO:	1	su	BSEQUENT R	SPORT OF:			
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FRACTURE TREAT		LTIPLE COMPLETE	"	FRACTURE TREATMENT		ALTERING	. = ==		
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WELL SUMMARY

Operator:

Kenneth D. Luff

Well:

#2 National Government

Location:

876 fel x 818 fsl Section 17, T6S, R21E

Uintah County, Utah

Elevation:

5009 Grd. - 5020 KB

Contractor:

Barker Drilling & Well Service

Rig Type:

T-12 (Bowden)

Commenced:

December 27, 1969

Completed:

January 6, 1970

Total Depth:

4187 Driller - 4156 Schlumberger

Casing:

Surface: 8 jts. of 8 5/8", 24#, landed at 225' and

set with 200 sacks of Type G regular cement

with 3% calcium.

Production: Dry hole.

Hole Size:

12 1/4" to 228; 7 7/8" to 4187'

DST:

None

Logging Services:

Schlumberger IES 582-4156

Aldirita Mud Logging Company 3500-4187

Samples:

None kept.

Geologist:

Kenneth D. Luff - Al Chatham

Status:

Dry and abandoned.

CHRONOLOGIC WELL HISTORY

- 12/27/69 Rigging up Barker Ideco rig #6. Mixing mud @ 4:00 p.m. Drilled and set rat hole from 5:00 p.m. to 9:00 p.m. Spudded 12 1/4" surface hole at 9:00 p.m. and drilled to 90'.

 Total Footage 90'
- 12/28/69 Drilled 12 1/4" surface hole to 228'. Conditioned hole and ran 8 joints of 8 5/8" surface casing landed at 225' with 200 sacks of Type G regular cement with 3% calcium, plug down at 1:30 p.m. Had good circulation throughout job. Deviation 1/2 degree @ 101'. W.O.C. and cleaning out mud pits. Nippling up to B.O.P. Drilled cement and plug at 9:00 p.m. Drilled ahead with water to 470'.

 Total Footage 380'
- 12/29/69 Drilled 7 7/8" hole to 1640' with water. Made trip for bit #2 at 741' and for bit #3 @ 1373'. Several hours down time to repair draw works motor and rotary chain. Deviation 1 1/4 degree @ 741' and 3/4 degree @ 1373.

 Total Footage 1170'
- 12/30/69 Drilled 7 7/8" hole to 2322' with water. Made trip for bit #4 @ 1993 and #5 @ 2087'. Deviation @ 1993-1 degree. 45' of fill on trip @ 1993'.

 Total Footage 682'
- 12/31/69 Drilled 7 7/8" hole to 2984' with water. Made trip for bit #6 @ 2565. Deviation 1 degree @ 2574.

 Total Footage 662'
- 1/2/70 Drilled to 3582' with mud. Started mixing mud @ 2:00 p.m. at a depth of 3500'. Made trip for bit #9 @ 3437. Cleaned pits on trip @ 3437. Plugged bit when started to mud up--removed joint of drill pipe with hole.
 Total Footage 235'
- 1/4/70 Drilled to 4068 with mud. Made trip for bit #11 @ 3917; dressed bad tool joints on trip. On trip Kelly froze in rat hole. Washed 120' to bottom.
 Total Footage 175'
- 1/5/70 Drilled to 4187 with mud. Short tripped and conditioned hole

for 2 hours to log hole. Reached total depth at 4:45 p.m. Ran Schlumberger IES Log. Went in hole open ended to plug well.

Total Footage 119'

1/6/70 - Plugged well as follows:

40 sacks - 3950-3800 25 sacks - 2950-2850 25 sacks - 275-175 5 sacks - Surface

Job completed @ 6:00 a.m.

FORMATION TOPS

Uin <u>ta</u>	<u>Surface</u>
"A" Marker	3612
"B" Marker	3767 (+1253)
"C" Marker	3882
"D" Marker	3974
Green River Trans.	4102

MIDNIGHT DRILLING DEPTHS

Date	<u>Depth</u>	Footage
$12\overline{/27/69}$	90,	901
12/28/69	470	380
12/29/69	1640	1170
12/30/69	2322	682
12/31/69	2984	662
1/1/70	3347	363
1/2/70	3582	235
1/3/70	3893	311
1/4/70	4187	119

DEVIATION SURVEYS

<u>Depth</u>	Deviation	Pump Press. Weight	RPM
101	1/2 degree		
741	1 1/4 degree	,	
1373	3/4 degree	Drilling with wate	er
1983	l degree	•	
2574	l degree		0.0
3437	3/4 degree	780# 40,000	90

BIT RECORD

No. Size	Make	Type	In	Out	Footage	<u> Hours</u>	<u>#</u>
No. Size 12 1/4"	Smith	R.R.	0	<u>Out</u> 228	228	13	R.R.
2 7 7/8	HTC	OSC3A	228	741	513	9 1/2	KH817
=	Smith	DTTJ	741	1373	632	7 3/4	CH118
3 7 7/8		DTTJ ·	1373	1983	610	10 1/4	CH082
4 7 7/8	Smith		1983	2087	104	3 3/4	CE949
5 7 7/8	Smith	DTTJ	2087	2574	487	11 1/2	CK073
6 7 7/8	Smith	DTTJ		2990	416	12 3/4	CF009
7 7/8	Smith	DTTJ	2574		186	7	P0115
8 7.7/8	HTC	OSC3AJ	2990	3176		, ,	562675
9 7 7/8	Reed	YT3TJ	3176	3437	261	10	CW374
10 7.7/8	Smith	DGTJ	3437	3714	277	13	
7 7/8	Smith	STC	3714	3916	102	12 1/4	CW555
12 7 7/8	Smith	DGTJ	3916	4118	202	14	BW547
13 7 7/8	Smith	DGTJ	4118	4187	69	6	

DAILY MUD CHARACTERISTICS

<u>Date</u>	<u>Depth</u>	Ty	pe	Weight	<u>Visc</u>	W.L.	<u>PH</u>	% Sd.
1/2/70	3580	Chem	-Gel	9.0	35	12.3	9.5	
1/3/70	3759	11	11.	9.2	35	8.7	9.0	* , -
1/4/70	3959	11	TT	9.6	37	7.2	10.5	_
1/5/70	4133	īf	TŢ.	9.6	40	7.8	9.5	-

Note: Clear water was used as a drilling fluid to a depth of 3500', at which depth the wellwas mudded up. The well was serviced by Baroid.

LITHOLOGY

Refer to lithologic descriptions shown on mud logger report and log of hole.

SIGNIFICANT MUD LOGGER SHOWS

- 3864-69 10 units total gas; all methane. Mud weight 9.3#/gal. (Gas productive but very limited)
- 4013-16 50 units total gas; trace ethane and propane. Mud weight 9.5#/gal (Gas productive but very limited)
- 4050-53 12 units total gas; mostly methane with some ethane and propane.

 Mud weight 9.5#/gal. (Probably water productive)
- 4058-63 8 units total gas. Mostly methane with trace ethane and propane.

 Mud weight 9.5#/gal. (Tight)
- 4090-94 25 units total gas. Mostly methane with some ethane and propane. Trace of oil staining. Mud weight 9.6#/gal. (Probably water productive)
- 4124-27 18 units total gas. Mostly methane with some ethane and propane. Good oil staining in sandstone. Mud weight 9.6#/gal. (Probably water productive)
- 4134-36 15 units total gas. Same comments as on sand from 4124-27.
- 4146-52 10 units total gas. Gases methane, ethane and propane. Heavy oil stain in sandstone. Mud weight 9.6#/gal. (Probably water productive)
- 4160-65 35 units total gas. Gases methane, ethane, propane and butane. Heavy oil stain in sandstone. Mud weight 9.6#/gal. (Probably water productive)
- 4175-77 60 units total gas. Same comments as on sand from 4160-65'.